



Billings, MT • Helena, MT • Seattle, WA

1325 Euclid Ave Unit #1
Helena, Montana 59601
Phone: 406/443-3369
FAX: 406/443-0733

May 2, 2013

Mr. Doug Compton
Montana Department of Transportation
2701 Prospect Avenue
Helena, MT 59620-1001

RE: Letter Report
Pre-demolition Asbestos Inspection
Bearmouth Rest Areas, Drummond, Montana
Northern Project Number 149-057

Dear Mr. Compton:

This letter report provides the summarized results of the pre-demolition asbestos inspection and survey performed by Douglas G. Tisdell (MTA-2602, Exp. 11/29/2013)) of Northern Industrial Hygiene, Inc. (Northern) on April 18, 2013 at the above referenced sites. The inspection was performed to determine if asbestos is present in the building materials which may be impacted during the planned demolition activities which will be required to be conducted prior to the construction of new rest area facilities at the same locations. The following report summarizes the results of Northern's inspection survey.

Building Overview

The Bearmouth Rest Areas are located near milepost 143 on the Interstate 90 corridor west of Drummond, Montana. The exact date of construction was not available at the time of the survey. Both structures are approximately 500 total square feet in size. Visual inspections of the rest area facilities revealed both structures being of identical design, construction date and building material composition and were assessed to be and sampled as a single homogeneous building system. The single-story structures consist of wood frame construction on a concrete slab foundation with attic areas which contain skylights. Fluorescent light fixtures located in the mechanical room center pipe chase area provide lighting to each rest room area in the structures. No Thermal System Insulation (TSI) was observed to be present on the pipes or plumbing components in either structure. Both structures contain electric heating and cooling systems.

Typical interior building material finishes include plaster wall and ceiling systems in the restrooms, interior wall vapor barrier paper, ceramic tiles, concrete, and gypsum board ceilings in the center mechanical room areas below the skylights. Fiberglass insulation is present in the attic area.

Typical exterior building material finishes include manufactured wood siding, wood shake shingles over roofing paper and concrete slab foundations.

Asbestos Overview

Asbestos is a trade name for a group of fibrous naturally occurring minerals that were used widely in building materials because of its ability to bind, resist chemicals, insulate, and fireproof.

Exposure to elevated levels of asbestos fibers has been documented to cause a variety of diseases including asbestosis and cancer. Consequently, the application, removal, and disposal of asbestos-containing materials are regulated by several agencies.

Asbestos in most building materials poses little threat to human health as long as the asbestos fibers are securely bound within the building material. However, as the materials deteriorate because of time or exposure, or are disturbed because of human or other activities, the potential increases for the fibers to become airborne. When this occurs, the risk to human health increases significantly when the fibers are inhaled.

One definition for asbestos-containing building materials (ACBM), found in Environmental Protection Agency (EPA) regulations, (40 CFR, Part 763 - Asbestos Model Accreditation Plan and Section 202, Toxic Substance Control Act) is as follows:

- Friable asbestos-containing material containing more than one percent asbestos, which has been applied on ceilings, walls, structural members, piping, duct work, or any other part of a building, which when dry, may be crumbled, pulverized, or reduced to powder by hand pressure. The term includes non-friable asbestos-containing materials after it becomes damaged, by any means, such that when dry, it may be crumbled, pulverized, or reduced to powder by hand-pressure. This definition also includes flooring materials.

Another definition, found in Occupational Safety and Health Administration (OSHA) regulations, (29 CFR Parts 1910 and 1926) is slightly different as follows:

- Asbestos-containing materials are defined as being any material that contains more than one percent asbestos and also defines certain high-risk materials, which are presumed to contain asbestos, as Presumed Asbestos-containing Materials (PACM). The PACM designation applies to thermal system insulation, sprayed on or troweled on surfacing material and debris where such material is present. The PACM terminology was added to ensure compliance with the hazard communication provisions of the laws and specifically for buildings constructed prior to 1980.

Asbestos Inspection Procedures

Sampling Procedures

The asbestos survey was performed using the applicable portions of the currently recognized standard protocol as established in the Administrative Rules of Montana (ARM 17.74.354). Since the primary concern for this investigation was to identify potential asbestos hazards in the building materials which may be impacted during the planned demolition activities, the Northern representative visually inspected existing conditions in the accessible areas to identify suspect ACM building materials.

Nine homogeneous building materials were identified in the structures of which four (4) separate homogeneous building materials suspected to contain asbestos were identified and sampled. On April 18, 2013 Northern collected between three and five representative samples of each suspect

Mr. Doug Compton
Asbestos Inspection
Bearmouth Rest Areas
Drummond, Montana
May 2, 2013
Page 3

material from the rest area facilities for a total of fourteen (14) samples.

Suspect building materials sampled consist of:

- M1.1 Roofing Paper under Wood Shake Shingle Roofing Material;
- M3.1 Gypsum Wallboard;
- M7.1 Plaster Wall / Ceiling System Material; and
- M16.1 Interior Wall Vapor Barrier Sheeting

The sample locations are detailed on the Chain of Custody forms included in the laboratory analysis report provided as an attachment to this report. For the purposes of this inspection the building materials wood, metal, glass, concrete and fiberglass insulation are considered "non-suspect" asbestos-containing materials and were not sampled as part of this inspection and survey.

Laboratory Analysis of Bulk

Bulk samples obtained during the inspection were assigned bulk sample numbers and entered on sample summary/chain-of-custody forms. The samples were transported to the laboratory by overnight courier under standard chain-of-custody procedures. The analysis was performed in accordance with EPA Method 600/R-93/116, which employs polarized light microscopic techniques with dispersion staining for identification of mineral forms of asbestos. The quantification of asbestos in the sample is intended to be an estimate only and the limit of detection for this method is approximately 1% by volume.

Asbestos Inspection Findings

All suspect asbestos-containing building materials identified and sampled during this inspection of the rest area structures are reported by laboratory analysis as "No Asbestos Detected", and are not considered "Asbestos Containing Materials". For additional information refer to Table 1 and the laboratory report provided as an attachment to this report.

Conclusions and Recommendations

As all suspect building materials sampled during this inspection are reported by laboratory analysis as "No Asbestos Detected", and are not considered "Asbestos Containing Materials", Northern has no further recommendations for the materials sampled during this inspection.

Limitations

This asbestos inspection survey report was prepared based on information obtained during our on-site observations and interpretation of the laboratory of bulk samples of building materials collected during the survey. The conclusions of this report are professional opinions based solely upon our visual site observations and interpretations of laboratory analyses and field data as described in our report.

This report has been prepared to provide information concerning the various types and estimated

Mr. Doug Compton
Asbestos Inspection
Bearmouth Rest Areas
Drummond, Montana
May 2, 2013
Page 4

quantities of asbestos-containing materials present at this site. It includes only those materials that were visible and accessible at the time of our inspection. We did not remove any permanent building enclosures or disassemble any equipment.

This inspection and report is intended to identify asbestos-containing materials. It is not intended to be used for the purpose of obtaining bids for its removal by abatement contractors. The scope of services performed by Northern may not be appropriate to satisfy the needs of other users, and any use or re-use of this document, or the findings presented herein, is at the sole risk of the user.

Our opinions are intended exclusively for use by the Montana Department of Transportation. The opinions presented herein apply to the site conditions existing at the time of our investigation. Therefore, our opinions and recommendations may not apply to future conditions that may exist at the site that we have not had the opportunity to evaluate.

We trust this summary report provides sufficient information for planning purposes. We appreciate the opportunity to assist you and look forward to continuing to work with you.

It was a pleasure to assist you with this project. Please call if you have any questions on our report, or if you need any additional assistance.

Respectfully submitted,

NORTHERN INDUSTRIAL HYGIENE, INC.



Douglas G. Tisdell,
Montana Asbestos Inspector

Attachments: Asbestos Table 1
Laboratory Analysis Report
Photograph Log
Inspector Credentials
Invoice

TABLE 1
SUMMARY OF MATERIALS SUSPECTED TO CONTAIN ASBESTOS
Bearmouth Rest Areas
Drummond, Montana
Northern Project Number 149-057

Material Number	Material Description	Location	Laboratory Results
M1.1	Asphaltic Paper Under Wood Shake Shingle Roof System	Roof Area of Structure	ND
M3.1	Gypsum Wallboard (No Taping Material)	Mechanical Room Ceiling	ND
M7.1	Wall / Ceiling Plaster System	Interior Walls / Ceilings	ND
M16.1	Asphaltic Paper Wall Vapor Barrier	Behind Interior Plaster Walls	ND

Chrysotile = Chrysotile Asbestos
Amosite = Amosite Asbestos
Tremolite = Tremolite Asbestos

NS = Material Not Sampled
ND = No Asbestos Detected
NA = Sample Not Analyzed

TABLE 2
SUMMARY OF CONFIRMED ASBESTOS-CONTAINING MATERIALS
Bearmouth Rest Areas
Drummond, Montana
 Northern Project Number 149-057

Material Number	Description	NESHAP Category	Recommended Response Action
NA	No Asbestos Containing Materials Identified in Rest Areas	NA	NA
<p>Category I Non-friable ACM packings, gaskets, resilient floor covering, and asphalt roofing products.</p> <p>Category II All non-friable ACM, excluding Category I materials.</p> <p>RACM Friable ACM; Category I material that has become friable; Category I material that will be subjected to sanding, grinding, cutting, or abrading; or Category II, material that has a high probability of becoming friable.</p>			

Photo Log
Bearmouth Rest Areas, Drummond, Montana
Site Visit – April 18, 2013



Photograph 1
Bearmouth West Bound Rest Area Exterior.



Photograph 2
Bearmouth East Bound Rest Area Exterior.



Photograph 3
Interior Men's Rest Room Walls and Ceilings.



Photograph 4
Mechanical Room Electrical / Plumbing Chase between Men's /
Women's Rest Rooms.



215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
EMAIL: jcummings@bridgeband.com
NVLAP Lab Code: 200511-0

4/26/2013

Doug Tisdell
Northern Industrial Hygiene, Inc.
1325 Euclid Avenue, Unit 1
Helena, MT 59601-

RE: Bulk Asbestos Fiber Analysis; Batch # 13-00246
Project Location *Bearmouth/ Divide*

Dear Doug Tisdell,

Thank you for choosing Northern Industrial Hygiene, Inc. as your laboratory. Enclosed you will find analytical results for the bulk samples submitted to the laboratory.

Northern Industrial Hygiene is accredited by NVLAP Lab Code: 200511-0. Accreditation by NVLAP does not indicate endorsement by NVLAP or any other government agency. All bulk samples are analyzed in accordance with U.S. EPA Method -600/M4-82-020, December 1982 and EPA Method 600/R-93-116, July 1993. "Method for Determination of Asbestos in Bulk Building Materials"(NESHAP, 40 CFR-Part 61) protocol.

Analysis is cross checked through our inter or intra laboratory quality assurance program for verification. The percent values reported are based on calibrated visual estimates by volume unless verification by Point Count is indicated. Test results reported relate only to the samples submitted by the customer to Northern Industrial Hygiene, Inc. Trace amounts of asbestos are below the limit of detection and asbestos fibers with diameters below approximately 0.25 micrometers are not detectable with the Polarized Light Microscopy (PLM) analytical procedure. A trace amount of asbestos is defined as one to five fibers in three slide mounts. Asbestos found in this amount will be reported as "< 1.0%" by PLM analysis.

This report is highly confidential and shall not be reproduced without your written approval and the written approval of Northern Industrial Hygiene, Inc.

Samples are archived for thirty (30) days following analysis. Please contact us if samples need to be archived longer than the standard holding time.

Thank you for using Northern Industrial Hygiene, Inc. If you have any questions or concerns please contact us.

Sincerely,

Jude Cummings
Laboratory Manager

Enclosure: Bulk Sample Results



215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
1325 Euclid Avenue, Unit 1
Helena, MT 59601-
Project Location: *Bearmouth/ Divide*

NIH Batch Number: 13-00246
Client Job Number: 149-057
Turn Around Time: 5 Day
Samples Analyzed: 14

Client Sample Number: M1.1A Lab Sample Number: 13-00246.0001
Client Sample Description: Roofing Paper
Client Sample Location: N. Rest Area Roof - Under Wood Shake Shingles
Sample Comments: Checked If Sample Not Analyzed ☐

Black fibrous asphalt

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	30% Cellulose	70% Asphalt Filler and Binder

Client Sample Number: M1.1B Lab Sample Number: 13-00246.0002
Client Sample Description: Roofing Paper
Client Sample Location: N. Rest Area Roof - Under Wood Shake Shingles
Sample Comments: Checked If Sample Not Analyzed ☐

Black fibrous asphalt

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	30% Cellulose	70% Asphalt Filler and Binder

Client Sample Number: M1.1C Lab Sample Number: 13-00246.0003
Client Sample Description: Roofing Paper
Client Sample Location: N. Rest Area Roof - Under Wood Shake Shingles
Sample Comments: Checked If Sample Not Analyzed ☐

Black fibrous asphalt

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	30% Cellulose	70% Asphalt Filler and Binder

Client Sample Number: M3.1A Lab Sample Number: 13-00246.0004
Client Sample Description: Gypsum Wallboard
Client Sample Location: N. Rest Area Ceiling
Sample Comments: Checked If Sample Not Analyzed ☐

Off-white and tan papery on white compressed powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	15% Cellulose 2% Fiberglass	83% Filler and Binder

(Sample results continued on next page.)

Sampled by: Doug Tisdell
Received by: Fermin Uribe
Reviewed by: Jude Cummings

4/18/2013
4/24/2013
4/26/2013

Jude Cummings, Laboratory Manager



215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
1325 Euclid Avenue, Unit 1
Helena, MT 59601-
Project Location: Bearmouth/ Divide

NIH Batch Number: 13-00246
Client Job Number: 149-057
Turn Around Time: 5 Day
Samples Analyzed: 14

Client Sample Number: M3.1B Lab Sample Number: 13-00246.0005
Client Sample Description: Gypsum Wallboard
Client Sample Location: S. Rest Area Ceiling
Sample Comments: Checked If Sample Not Analyzed ☐

Off-white and tan papery on white compressed powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	15% Cellulose	83% Filler and Binder
	2% Fiberglass	

Client Sample Number: M3.1C Lab Sample Number: 13-00246.0006
Client Sample Description: Gypsum Wallboard
Client Sample Location: S. Rest Area Ceiling
Sample Comments: Checked If Sample Not Analyzed ☐

Off-white and tan papery on white compressed powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	20% Cellulose	78% Filler and Binder
	2% Fiberglass	

Client Sample Number: M7.1A Lab Sample Number: 13-00246.0007
Client Sample Description: Plaster Wall/ Ceiling System
Client Sample Location: N. Rest Area- Utility Room
Sample Comments: Checked If Sample Not Analyzed ☐

White gritty material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	60% Aggregate
		39% Filler and Binder

Client Sample Number: M7.1B Lab Sample Number: 13-00246.0008
Client Sample Description: Plaster Wall/ Ceiling System
Client Sample Location: N. Rest Area- Utility Room
Sample Comments: Checked If Sample Not Analyzed ☐

White gritty material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		65% Aggregate
		35% Filler and Binder

(Sample results continued on next page.)

Sampled by: Doug Tisdell
Received by: Fermin Uribe
Reviewed by: Jude Cummings

4/18/2013
4/24/2013
4/26/2013

Jude Cummings, Laboratory Manager



215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.

1325 Euclid Avenue, Unit 1

Helena, MT 59601-

Project Location: *Bearmouth/ Divide*

NIH Batch Number: 13-00246

Client Job Number: 149-057

Turn Around Time: 5 Day

Samples Analyzed: 14

Client Sample Number: M7.1C Lab Sample Number: 13-00246.0009
Client Sample Description: Plaster Wall/ Ceiling System
Client Sample Location: N. Rest Area- Utility Room
Sample Comments: Checked If Sample Not Analyzed ☐

Off-white gritty material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	65% Aggregate 34% Filler and Binder

Client Sample Number: M7.1D Lab Sample Number: 13-00246.0010
Client Sample Description: Plaster Wall/ Ceiling System
Client Sample Location: S. Rest Area- Utility Room
Sample Comments: Checked If Sample Not Analyzed ☐

Light gray gritty material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	65% Aggregate 34% Filler and Binder

Client Sample Number: M7.1E Lab Sample Number: 13-00246.0011
Client Sample Description: Plaster Wall/ Ceiling System
Client Sample Location: S. Rest Area- Utility Room
Sample Comments: Checked If Sample Not Analyzed ☐

Light gray gritty material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	65% Aggregate 34% Filler and Binder

Client Sample Number: M16.1A Lab Sample Number: 13-00246.0012
Client Sample Description: Vapor Barrier Sheeting
Client Sample Location: N. Rest Area, Utility Room
Sample Comments: Checked If Sample Not Analyzed ☐

Black fibrous asphalt

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	40% Cellulose	60% Asphalt Filler and Binder

(Sample results continued on next page.)

Sampled by: Doug Tisdell

4/18/2013

Received by: Fermin Uribe

4/24/2013

Reviewed by: Jude Cummings

4/26/2013

Jude Cummings, Laboratory Manager



215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
1325 Euclid Avenue, Unit 1
Helena, MT 59601-
Project Location: *Bearmouth/ Divide*

NIH Batch Number: 13-00246
Client Job Number: 149-057
Turn Around Time: 5 Day
Samples Analyzed: 14

Client Sample Number: M16.1B Lab Sample Number: 13-00246.0013
Client Sample Description: Vapor Barrier Sheeting
Client Sample Location: S. Rest Area, Utility Room
Sample Comments: Checked If Sample Not Analyzed ☐

Black fibrous asphalt

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	35% Cellulose	65% Asphalt Filler and Binder

Client Sample Number: M16.1C Lab Sample Number: 13-00246.0014
Client Sample Description: Vapor Barrier Sheeting
Client Sample Location: S. Rest Area, Utility Room
Sample Comments: Checked If Sample Not Analyzed ☐

Black fibrous asphalt

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	40% Cellulose	60% Asphalt Filler and Binder

Sampled by: Doug Tisdell
Received by: Fermin Uribe
Reviewed by: Jude Cummings

4/18/2013
4/24/2013
4/26/2013

Jude Cummings, Laboratory Manager

Chain of Custody

NVLAP Lab Code: 200511-0

Northern Industrial Hygiene, Inc.

1325 Euclid Avenue, Unit #1

Helena, MT 59601

Phone: (406) 443-3369

Fax: (406) 443-0733

E-mail: dtisdell@bridgeband.com

Inspector/Contact: Doug Tisdell Send to Joe as well

For lab use only:

Sample(s) size: Accept/ Reject

Non-Conformance Memo: Y ☒ N

Package Condition: Good / Damaged / Sever Damage

NIH Lab Batch ID: 13-00246

Proj. Name: Bearmouth/Divide

Project Number: 149-057

Date Samples Taken: 4-18-13

Type of Analysis: PLM

Turn Around Time Request:

2 Hour:

Same Day:

24 Hour:

5 Day:	Standard
--------	----------

Page: / of /

NIH Lab ID	Sample Number	Sample Description	Sample Location
1	M1.1A	Roofing Paper Under Wood Shake Shingles	North Rest Area Roof
2	.1B		
3	.1C		South
4	M3.1A	Gypsum Wallboard	North Rest Area Ceiling
5	.1B		South
6	.1C		
7	M7.1A	Plaster Wall/Ceiling System	North Rest Area - Util. Rm
8	.1B		
9	.1C		
10	.1D		South Rest Area -
11	.1E		
12	M14.1A	Vapor Barrier Sheeting	North Rest Area, Util. Rm
13	.1B		South Rest Area, Util. Rm
14	.1C		

Number of samples shipped this page: 14

Total number of samples shipped: 14

Special Instructions: **Analyze Group method - Stop at first positive in each group** Yes ☒ No ☐

Date: 4-23-13

Time: 14.00

Relinquished by: James M. [Signature]

Firm: *WLL*

Date: 54/24/13

Time: 1530

Received by: *James: W. L.*

Firm: 10TH-Bldg.

Date: _____

Time:

Relinquished by:

Form.	
Figure	

Date:

Time:

Received by:

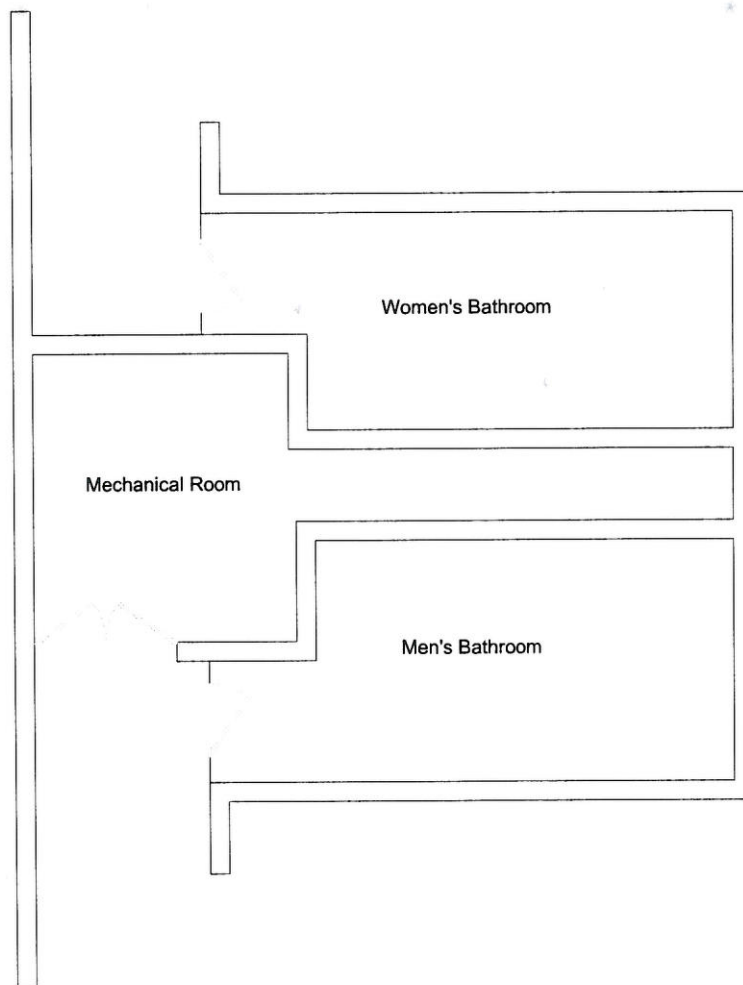
Firm:	
Size:	

Date: 04-26-13

Time: 10:45

Analyzed by: / /

Figure: 1 (1) (1)



NORTH AND SOUTH BOUND REST AREAS

1/8" = 1'-0"



NO ASBESTOS CONTAINING MATERIAL IDENTIFIED



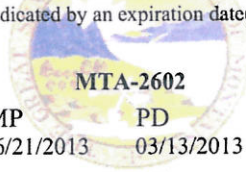
DATE: 04/29/2013
DRAWN BY: PB
CHK BY: KBO
CAD FILE: 057-Divide-Figs

PROJECT NAME: BEARMOUTH REST AREA
NIH PROJECT #: 149-057

FIG 1 - NORTH AND
SOUTH BOUND REST
AREAS ACM PLAN

DOUGLAS G TISDELL

has met the requirements of Montana Administrative Rule 17.74.362
and/or 17.74.363 for accreditation in the following asbestos-type
occupation(s) as indicated by an expiration date(s).



CS	MP	PD	IN
05/09/2013	06/21/2013	03/13/2013	11/29/2013

WK

A handwritten signature in black ink, appearing to read "Douglas G. Tisdell", is written over the printed name and title.

MT DEQ Asbestos Control Program
